ASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
				2498543-00	

Total Rs: ~~22 50 940 00~~

IT - 49971-00
CGST - 24985-00
CBF - 2499-00
LR - 24736-00
FSD - 124927-00
Fine - 1150-00

Add Tx - 2.28.268-00

Cheque: 2270.275-00

"First and final"

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. BRNO!

Name of Work ..... From..... To..... SBRNO-69

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	Name of the WORK :- Improvements to roads and drains at 4th 5th and 6th cls in ward NO-10 Roads and Surrounding area in AK colony Doddaboommasandra Doddaboommasandra] vidyaranpura Sub division. Estimated cost :- Rs 25.00 Lacths. Job number :- 010-18-00000 5 Head of Account :- 8878 18 per-works (Bhagya Jyothi, 500m Neem 45 areand general] [154/17-18. Dated :- 11-12-2017. Name of the Contractor :- Executive engineer, Karnataka Rural Infrastructure Development limited, #280, 54th cls Road, 17th cls (main road, 3rd (y) Block, Rajajinagar, Bangalore-10 Reference Agreement number :- BBMP/EE/BTP/WO) 84/2017-18.						

353844
16-3-18

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) KSRB 300-1: Earth work excavation by manual means in involving an average horizontal throw upto 2 metres and an upto 0.50m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications MORTH chapter 3. As per premeasurment wide of BNB-3539 & page no-353894 to 353896					564.44 m³ @ Rs 199.36 Rs 112527=00	ordinary soil average lift
	(2) KSRB M00- Construction of embankment with material (gravel/Murrum KSRB M300-53. Construction of embankment with approved material (gravel/ murrum with all lifts and leads, transporting to site, spreading, packing to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (Including cost of gravel/murrum, watering charges compaction by vibratory roller to 95% of proctor density] MORTH Spec. No. 305 P.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	As per premeasurment wid BNB-3539 & page no-35 to 353897
	(1) KSRB M400-6.1: construct crushed stone aggregate mixing in a mech factory work site, spreading in surface and compacting required density, complete grading II material As per premeasurment wide & page no-353897 to

EASUREMENT BOOK

	Dimensions			Contents	Reference to last Measurement
	Number 3	Length 4	Breadth 5	Depth 6	7	8
		Excavation by manual means in ordinary d... ...ntal throw upto 2 metres and an average li... ...are levelled and sides neatly dressed, the ...neatly after breaking of clods complete ...chapter 3.			564.44 m³	
		@Rs 199.36			Rs 112527=	
		...mbankment with material Gravel/Murrum ...embankment with approved material Gravel ...leads, transporting to site, spreading, pack... ...acting to meet requirement Table 300-2 (compact... ...ding cost of gravel/murrum, watering charge... ...der to 95% of proctor's density] MORTH Spe...				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353845

...rial No. .....
...me of Work ..... From..... To.....
...me of Contractor of nature of Agency .....
...te of commencement of work .....

...ate	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	7	8
	...s per premeasurement wide of ...BN- 3539 & page no - 353896 ...to 353897					273.60 m³	
	SORTH MORTH 400-6.1: construction of granular Subbase by providing close graded ~~Stone~~ ...rushed stone aggregate of granite/trap/basalt ~~stone~~ ...mixing in a mechanical mix plant at OMC, carriage of mixed material ...to site, spreading in uniform layers. with motor grader on prepared ...surface and compacting with Vibratory power roller to achieve the ...required density, complete as per specifications. A. Plant mix method - For ...making II material wide of MBN- 3539 & ...as per premeasurement Page no - 353897 to 353898					136.80 m³	
				@Rs. 320.12		Rs 87585=00	
				@Rs. 1665.26		Rs 227808=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	④ KSRB 4-1.3: providing and laying in position plain cement Concrete of mix 1:4 with OPC Cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted in foundation and plinth, including cost of all materials, labour, Hire of machinery, curing complete as per specifications. Specification KBS 4.1.4.2:- As per premeasurement wide QMB No-3539 of page no- 353898 to 353899 }					@ Rs. 5159.02 Rs 352877=	68.40 m²
	⑤ KSRB 4-6.4: providing and removing centering, shuttering, shuttering planning, etc., and removal of form work for vertical surface such as walls stanchions, including attached plasters, buttresses, Plinth and String course cost of all materials, labour complete as per specifications. Munshwara Block 1st Floor } -	2	30	0.30	=	18.00 m²	

Serial No. .....
Name of Work
Name of Cont
Date of comm

Date	Fu
1	
	Munshwara
	Munshwara
	Munshwara

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
mber 3	Length 4	Breadth 5	Depth 6	7	8
ims	position plain cement Concrete of mix 1:4:				
omm and down size graded granite metal					
nd fine aggregates @ 0.57 cum, machine					
t Exceeding 15cms thick, well compacted					
nding cost of all materials, labour,					
te as per specifications. Specification no.					
nt wide				68.40m³	
78 to 353899					
	@Rs. 5159.02			Rs 352877=1	
owing centering, shuttering, finishing grouting,					
for vertical surface such as walls etc any					
laster, Buttresses, Plinth and String course					
lete as per specifications.					
2 ×	30 ×	0.30	=	18.00m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353846

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2 ×	30 ×	0.30	=	18.00m²	
		2 ×	15.5×	0.30	=	9.30m²	
	Munghwara Block 2nd (room)-	2 ×	30 ×	0.30	=	18.00m²	
		2 ×	30 ×	0.30	=	18.00m²	
		2 ×	15.7×	0.30	=	9.42m²	
		2 ×	30 ×	0.30	=	18.00m²	
	Munghwara Block 3rd (room)-	2 ×	30 ×	0.30	=	18.00m²	
		2 ×	30 ×	0.3	=	9.12m²	
		2 ×	15.2×	0.3	=	18.00m²	
	Munghwara Block 4th (room)-	2 ×	30 ×	0.3	=	18.00m²	
		2 ×	30 ×	0.3	=	18.00m²	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2 ×	30 ×	0.3	=	12.00 m²	
		2 ×	8.6 ×	0.3	=	5.16 m²	
	(run road)-	2 ×	30 ×	0.30	=	18.00 m²	
		2 ×	10 ×	0.30	=	6.00 m²	
	Murghwara Block 5th (ramp)-	2 ×	30 ×	0.3	=	18.00 m²	
		2 ×	30 ×	0.3	=	18.00 m²	
		2 ×	30 ×	0.3	=	18.00 m²	
		2 ×	3.5 ×	0.3	=	2.10 m²	
			Net Quantity		=	275.10 m²	
			Quantity limited to		=	273.60 m²	
			@ Rs. 310.58			Rs 84975=1	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Serial No. .....
Name of Work .....
Name of Contractor
Date of commencem

Date	Full descr
1	

2. Cement
pavement, thi
(or) any other
ind dium size
-pedestals 1:2
in a concrete
ish bat coat
oor, (Steel
rm, wedges,
drawings]. Sp
ning nee

Dimensions				Contents	Reference to last Measurement
nber 3	Length 4	Breadth 5	Depth 6	7	8
2×	30×	0.3	=	12.00m²	
2×	8.6×	0.3	=	5.16m²	
×	30×	0.30	=	18.00m²	
×	10×	0.30	=	6.00m²	
×	30 ×	0.3	=	18.00m²	
×	30×	0.3	=	18.00m²	
×	30×	0.3	=	2.10m²	
	35 ×	0.3	=	275.10m²	
	Net Quantity		=	273.60m²	
	@Rs. 310.55			Rs 84975=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353847

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(b). Cement concrete pavement construction of unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with opc, cement (a) any other type as per clause 1051.22 design mix M20/M30 with 25mm and down size graded granite metal, Coarse aggregates & fine aggregates, with pozzolanic admixture, (b) its conforming to IS 9103-1999 Reaffirmed-2008, mixed in a concrete mixed of not less than 0.60 cum capacity and appropriate with batch as per approved mix design., laid in approved fixed side form work, (steel channel, laying and fixing of 125mm minimum thick polythene sheet, wedges, steel plates including levelling the form work as per drawings). Spreading the concrete with shovels, rakers, compacted using needle, screed and plate vibrators and finished in a						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Continuous, operation including providing Construction and Longitudinal joints, including Joint filler, Seperation membrane, admixture as approved, curing compound, finishing to lines and grades as per drawing complete as per Specification – M20 (at 300 kg per Cum Coarse aggregates @ 0.64 Cum and fine aggregate @ 0.43 cum						
	Muneshwara Block 1st crain	1	30	$\left(\frac{3.6+3.5}{2}\right)$	×0.125 =	13.31 m³	
		1	30	$\left(\frac{3.5+3.4}{2}\right)$	×0.125 =	12.74 m³	
		1	15.5	$\left(\frac{3.4+3.6}{2}\right)$	×0.125 =	6.78 m³	
	Muneshwara Block 2nd crain	1	30	$\left(\frac{4.1+4.0}{2}\right)$	×0.125 =	15.19 m³	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	Muneshwara Block 3rd
	Muneshwara Block 4t

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353848

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Maneshwara Block 3rd floor	1 × 30 × $\left(\frac{4.0+4.0}{2}\right)$ × 0.125 =				15.00 m³	
		1 × 15.70 × $\left(\frac{4.0+4.2}{2}\right)$ × 0.125 =				8.05 m³	
		1 × 30 × $\left(\frac{4.1+3.9}{2}\right)$ × 0.125 =				15.00 m³	
		1 × 30 × $\left(\frac{3.9+4.0}{2}\right)$ × 0.125 =				14.81 m³	
		1 × 15.2 × $\left(\frac{4.0+4.1}{2}\right)$ × 0.125 =				7.70 m³	
	Maneshwara Block 4th floor	1 × 30 × $\left(\frac{4.3+4.2}{2}\right)$ × 0.125 =				15.94 m³	

Dimensions				Contents	Reference to last Measurement
umber 3	Length 4	Breadth 5	Depth 6	7	8
provision of ints, including membrane, y compound, en specific Cattam – M20 (at 300 kg/ 0.64 Cum and fine aggregate @ 0.43 cum		Contraction, expansion, groove cutting, charge sealant, primer, joint sealant finishing to liner and grade			
1×	30×	$\left(\frac{3.6+3.5}{2}\right)$ × 0.125 =		13.31 m³	
1×	30×	$\left(\frac{3.5+3.4}{2}\right)$ × 0.125 =		12.74 m³	
1×	15.5×	$\left(\frac{3.4+3.6}{2}\right)$ × 0.125 =		6.78 m³	
1×	30×	$\left(\frac{4.1+4.0}{2}\right)$ × 0.125 =		15.19 m³	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(ramnad) -	1×	$30\times\left(\frac{4.2+4.0}{2}\right)\times 0.125$			$= 15.38\ m^3$	
		1×	$30\times\left(\frac{4.0+4.1}{2}\right)\times 0.125$			$= 15.19\ m^3$	
		1×	$8.6\times\left(\frac{4.1+4.3}{2}\right)\times 0.125$			$= 4.52\ m^3$	
		1×	$30\times\left(\frac{4.2+4.0}{2}\right)\times 0.125$			$= 15.38\ m^3$	
		1×	$10\times\left(\frac{4.0+4.3}{2}\right)\times 0.125$			$= 5.19\ m^3$	
	Mymenswara Block 5th (room) -	1×	$30\times\left(\frac{3.6+3.4}{2}\right)\times 0.125$			$= 13.13\ m^3$	
		1×	$30\times\left(\frac{3.4+3.5}{2}\right)\times 0.125$			$= 12.94\ m^3$	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	Vacuum de-w with SKD flo Hum g machine,

Assistant Exe
Vidyaranyap
BBMP,

SUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
1×	30×(4.2+4.0)/2		×0.125	= 15.38 m³	
1×	30×(4.0+4.1)/2		×0.125	= 15.19 m³	
1×	8.6×(4.1+4.3)/2		×0.125	= 4.52 m³	
1×	30×(4.2+4.0)/2		×0.125	= 15.38 m³	
1×	10×(4.0+4.3)/2		×0.125	= 5.19 m³	
1×	30×(3.6+3.4)/2		×0.125	= 13.13 m³	
1×	30×(3.4+3.5)/2		×0.125	= 12.94 m³	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353849

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1×	30×(3.5+3.5)/2		×0.125	= 13.13 m³	
		5×	(3.5+3.6)/2		×0.125	= 1.55 m³	
					=	221.09 m³	
					=	220.95 m³	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97.

Quantity limited to

@ Rs. 5508-82 Rs 1217174=00

Vacuum dewatering with vacuum pump and Suction mat and compaction with Skin floater Clubbed with floating disc including cost of generator, Hiring of machinery, Screed vibrator, power floater blade and disc, etc...

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	With all lead and lift. etc..,		Complete.				
	Muneshwara Block 1st cram}-	1×	30×	$\frac{3.6+3.5}{2}$		= 106.5 m²	
		1×	30×	$\frac{3.5+3.4}{2}$		= 103.50 m²	
		1×	15.5×	$\frac{3.4+3.6}{2}$		= 54.25 m²	
	Muneshwara Block 2nd cram}-	1×	30×	$\frac{4.1+4.0}{2}$		= 121.50 m²	
		1×	30×	$\frac{4.0+4.0}{2}$		= 120.00 m²	
		1×	15.7×	$\frac{4.0+4.2}{2}$		= 64.37 m²	
	Muneshwara Block 3rd cram}-	1×	30×	$\frac{4.1+3.9}{2}$		= 120.00 m²	

Serial No. .....
Name of Work .....
Name of Contractor of n
Date of commencement

Date	Full descripti
1	2
	Muneshwara Bl

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
	Complete.				
1×	30× (3.6+3.5)/2			= 106.5 m²	
1×	30× (3.5+3.4)/2			= 103.50 m²	
1×	15.5× (3.4+3.6)/2			= 54.25 m²	
1×	30× (4.1+4.0)/2			= 121.50 m²	
1×	30× (4.0+4.0)/2			= 120.00 m²	
1×	15.7× (4.0+4.2)/2			= 64.37 m²	
1×	30× (4.1+3.9)/2			= 120.00 m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353850

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Maheshwara Block 4th Flr -	1×	30× (3.9+4.0)/2			= 118.50 m²	
		1×	15.20× (4.0+4.1)/2			= 61.56 m²	
		1×	30× (4.3+4.2)/2			= 127.50 m²	
		1×	30× (4.2+4.0)/2			= 123.00 m²	
		1×	30× (4.0+4.1)/2			= 121.50 m²	
		1×	8.6× (4.1+4.3)/2			= 36.12 m²	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cross Road } —	1 ×	$30 \times \left(\frac{4.2+4.0}{2}\right)$			= 123.00 m²	
		1 ×	$10 \times \left(\frac{4.0+4.3}{2}\right)$			= 41.50 m²	
	Mylasandra Block 5th cross } —	1 ×	$30 \times \left(\frac{3.6+3.4}{2}\right)$			= 105.00 m²	
		1 ×	$30 \times \left(\frac{3.4+3.5}{2}\right)$			= 103.50 m²	
		1 ×	$30 \times \left(\frac{3.5+3.5}{2}\right)$			= 105.00 m²	
		1 ×	$3.5 \times \left[\frac{3.5+3.6}{2}\right]$			= 12.43 m²	
			Net Quantity			= 1768.73 m²	
			@ Quantity limited to			= 1767.60 m²	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Serial No. .....
Name of Work .....
Name of Contractor
Date of commencem

Date	Full des
1	Finali

SUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Dimensions			
1 ×	30 × (4.2 + 4.0)/2			= 123.00 m²	
1 ×	10 × (4.0 + 4.3)/2			= 41.50 m²	
1 ×	30 × (3.6 + 3.4)/2			= 105.00 m²	
1 ×	30 × (3.4 + 3.5)/2			= 103.50 m²	
	30 × (3.5 + 3.5)/2			= 105.00 m²	
1 ×	3.5 × [(3.5 + 3.6)/2]			= 12.43 m²	
	Net quantity			= 1768.73 m²	
	@ Rate			Limited to = 1767.60 m²	

Engineer
Division
ore-97

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353851

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Dimensions					
	Quantity of excavation details (Net & Transported)					= 1767.60 m²	
	@ Rs. 95.40					Rs	168629=00
	Sub Total —					Rs	2251575=00
	KRIDL charges 10%					— Rs	225158=00
	Labour Cess @ 1%					— Rs	22516=00
	Grand Total —					Rs	2499249=00

13/3/2018

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

MEASUREMENT BOOK

Total Rs: 2499249—
IT - 49985—
CESS - 24992—
CBE - 2499—
LR - 23743

Serial No. .....
Name of Work .....
Name of Contractor
Date of commence

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Name of the work: Providing and fixing Pre-fabricated Compounding wall in Vidyaranyapura Ward No.97 under Estimated Rs:24,99,249-00 (Rupees Twenty four lakh ninety nine thousand two hundred forty nine only) Job No: Head of A/c: Work ordered by Asst Engineer					FSD - 124962— Fine - 1150— Adju - 2 52 324— Cheque: 2246925-6	
19/03	Approved plan of Apartment						
			75.2m				
			75.7m				
			98.6m				
			93.5m.				
	Mushroom Block						
			75.5m				
13/3/2018							

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Index:-
□ - Concrete road done/(not done)

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97